

SUBSEQUENT WAVES

of COVID-1

How is our immunity to COVID-19 shaped by infection and vaccination?



COVID-19 vaccines trigger an immune response to the virus.

When someone receives a COVID-19 vaccine dose, their immune response is influenced by any previous infections with **OMICRON** the virus. Infections Antibodies A person's immunity to COVID-19 is shaped by their previous infections, and the number and type of COVID-19 vaccine doses. This is called 'immune imprinting' and means that, individually and globally, Different types of COVID-19 people have different immune vaccine may be given repertoires to fight the virus.

This will be vitally important when planning future COVID-19 vaccine campaigns, and when developing new vaccines against the virus.

Reference: Immune boosting by B.1.1.529 (Omicron) depends on previous SARS-CoV-2 exposure, Reynolds et al, *Science*, June 2022 DOI: 10.1126/science.abq1841 This work was supported by the National Core Studies Immunity Programme.